



The DoD Enterprise Model

The DoD Enterprise Model Symposium

March 22, 1993

Office of the Director of Defense Information



The DoD Enterprise Model

SCHEDULE

0715 - 0800	Registration
0800 - 0815	Opening Presentation
0815 - 0900	Overview of the Enterprise Model
0900 - 0945	Activity Model
0945 - 1015	Break
1015 - 1045	Data Model
1045 - 1200	Blueprint for Integration
1200 - 1330	Lunch
1330 - 1530	Open Discussion



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The Constitution of the United States of America Preamble

We the People of the United States, in Order to form a more perfect Union, establish Justice, insure domestic Tranquility, *provide for the common defense*, promote the general Welfare, and secure the Blessings of Liberty to ourselves and our Posterity, do ordain and establish this Constitution for the United States of America.



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CURRENT DoD SITUATION

- Accelerated Force Downsizing
- Evolving Missions
 - Shift to Lower End Warfighting Scenarios (e.g., Regional, LIC)
 - Additional Roles in Peacekeeping, Humanitarian Assistance ...
- New Administration's "Vision" for Government
 - Responsive
 - Effective
 - Efficient
 - Innovative and Enterprising



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THE ADMINISTRATION'S MESSAGE

- Long term economic growth that creates jobs and protects the environment
- A government that is more productive and more responsive to the needs of its citizens

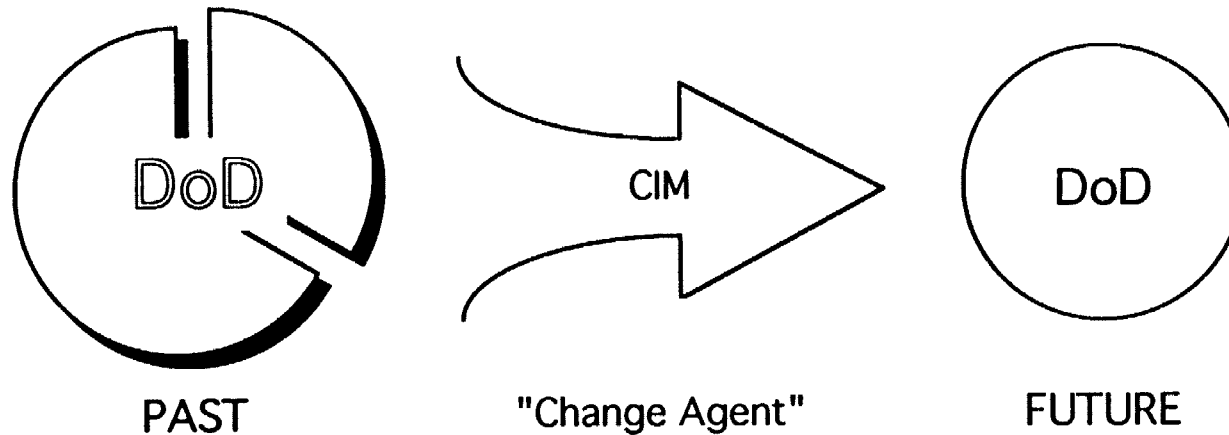
"The administration will undertake a careful review of government management with a view to making the most efficient possible use of new information technologies."

President Clinton and Vice President Gore
22 February 1993



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NEW DoD PARADIGM



- Locally Optimized
- Stovepiped
- Technically-Driven
- Non-standard
- Duplicative
- Highly Layered
- Costly & Wasteful
- Overhead Unmanaged

- Globally Optimized
- Integrated
- Functionally-Driven
- Standard
- Consolidated
- Flat
- Value-Added & Reusable
- Overhead Strictly Controlled



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CIM GOALS AND OBJECTIVES

- Achieve Essential Near-Term Savings without Cutting into Force Capability
- Embed Long-Term Change throughout the Department
- Improve Functional Areas and Activities across the Department



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CORPORATE INFORMATION MANAGEMENT APPROACH

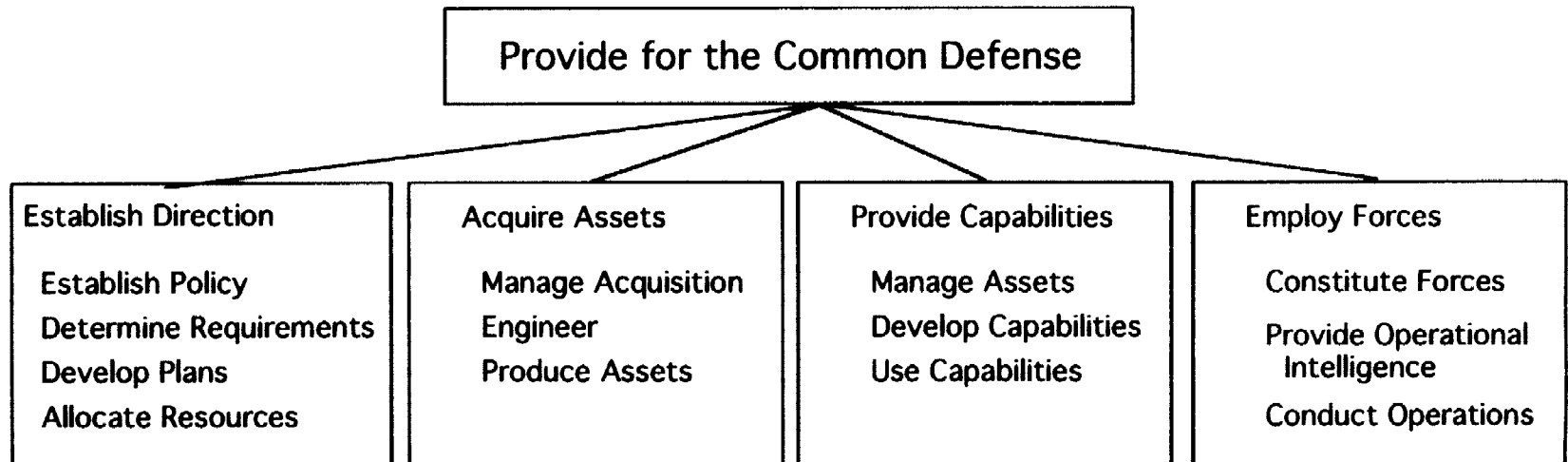
- Top Down Functional Process Improvement Policy
 - The "Business Way"
- The DoD Enterprise Model
 - The Top Level Functional and Data Framework
- Functional Process Improvement Initiatives
 - Making It Happen Across the Department
- Shared Data Initiatives
 - Data as a Corporate Resource Linking Functions and Information Systems
- Defense Information Infrastructure
 - The Information "Utility" for the Information Age



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ESTABLISH FUNCTIONAL DIRECTION

The DoD Enterprise Activity Model

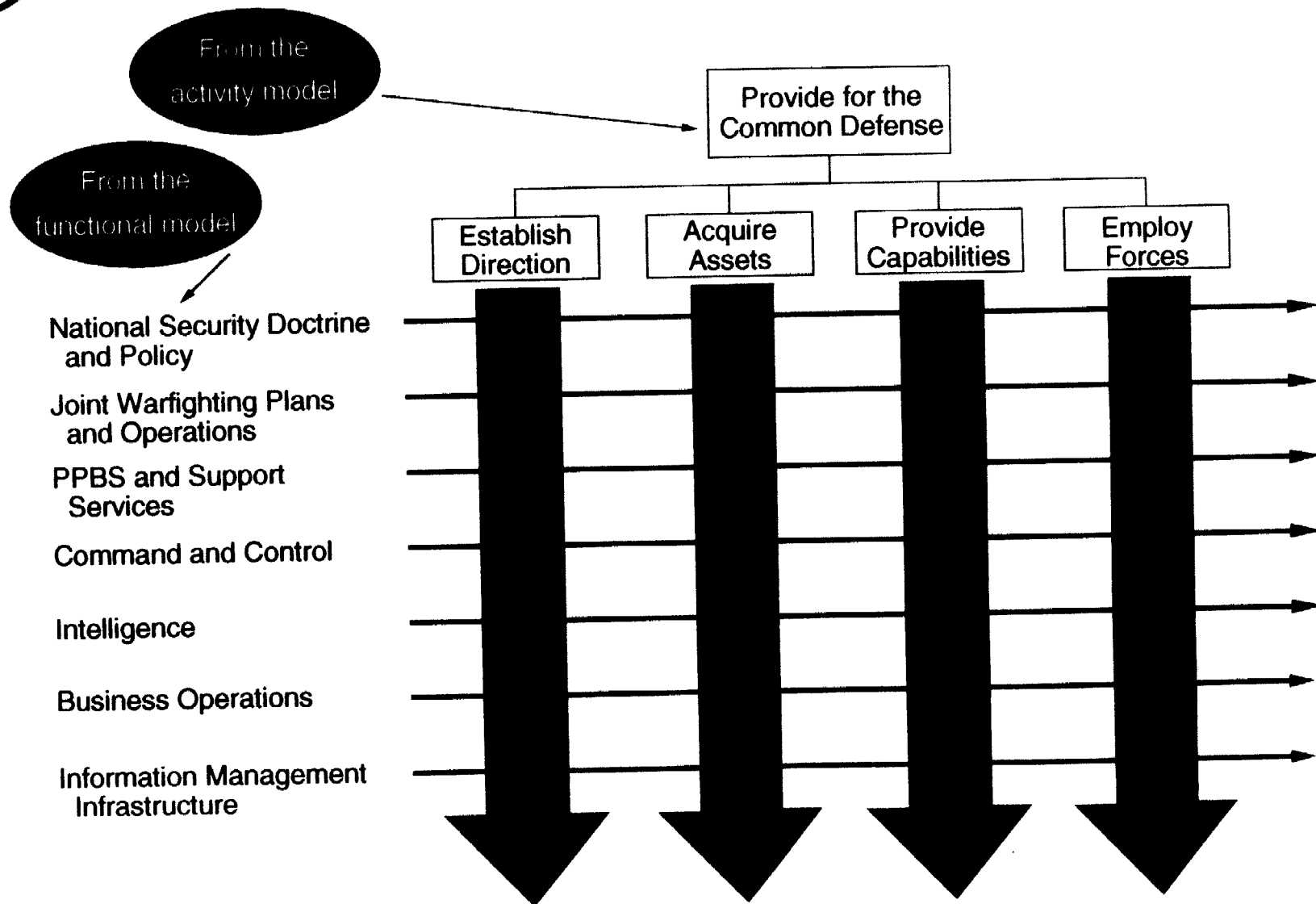


With minor adjustments, this activity model applies to all levels of the functional model – from developing warfighting plans to conducting business operations.



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ESTABLISH FUNCTIONAL DIRECTION





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A BRIEF WORD ABOUT DATA

- Process improvement efforts will produce data models
 - Describe the "rules" of the process
 - The link among all our processes
- Of use and interest to all managers, not just worker-level



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DATA AT THE STRATEGIC LEVEL – A FEW EXAMPLES

Data entities underlie our concepts ...

World Situation
<ul style="list-style-type: none">- Political- Military- Economic- Natural

Organizations
<ul style="list-style-type: none">- DoD- Other US gov't- US non-gov't- Foreign non-gov't- Foreign gov't

Guidance
<ul style="list-style-type: none">- Strategies- Statutes- Policy- Regulations- Doctrine- Missions

... and our assets

People
<ul style="list-style-type: none">- Military- Civilian

Materiel
<ul style="list-style-type: none">- Equipment- Supply Items- Publications- Software- Data

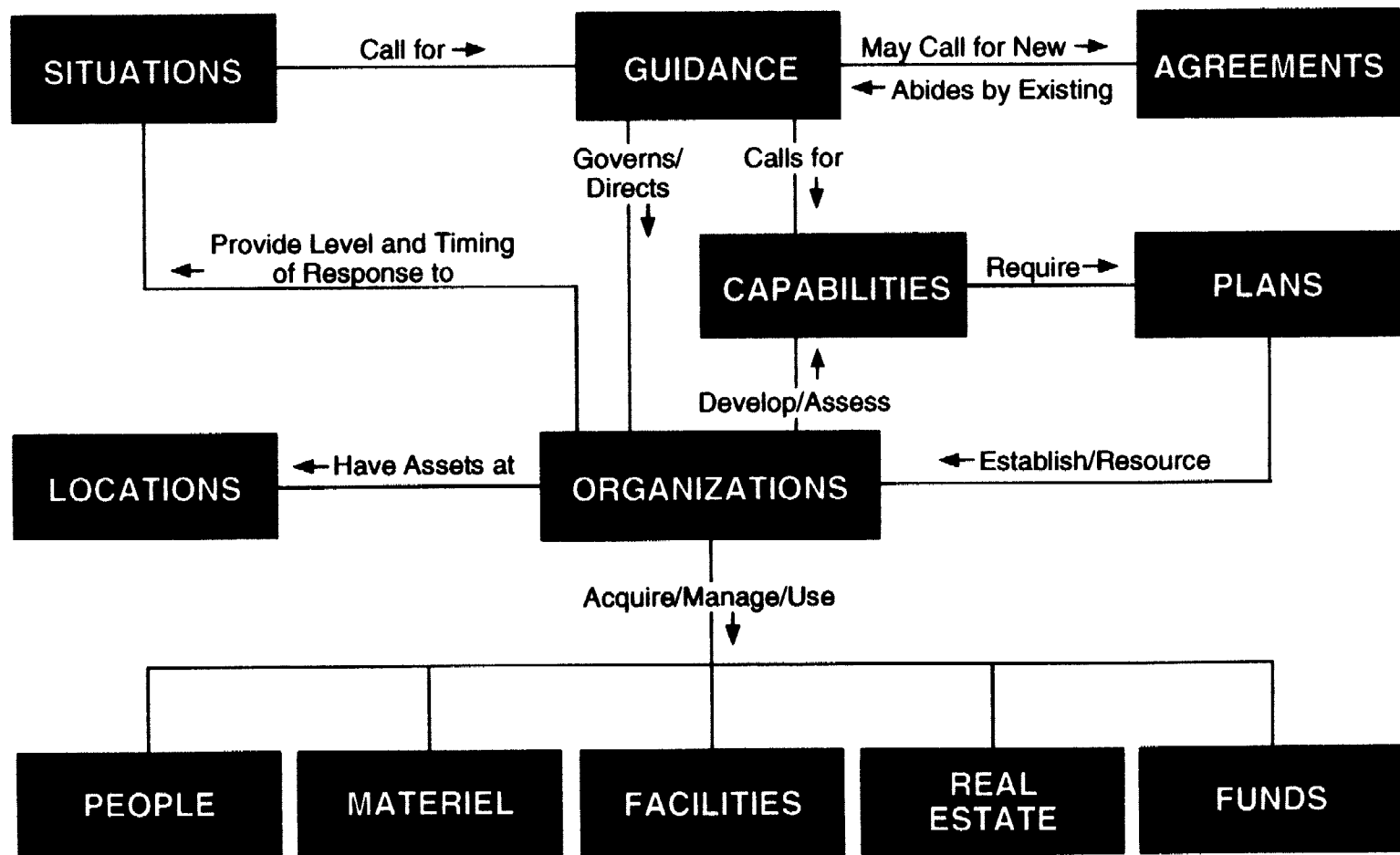
Funds
<ul style="list-style-type: none">- Non-appropriated- Appropriated- Revolving

In other words: all managers use data



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STRATEGIC LEVEL RELATIONSHIPS

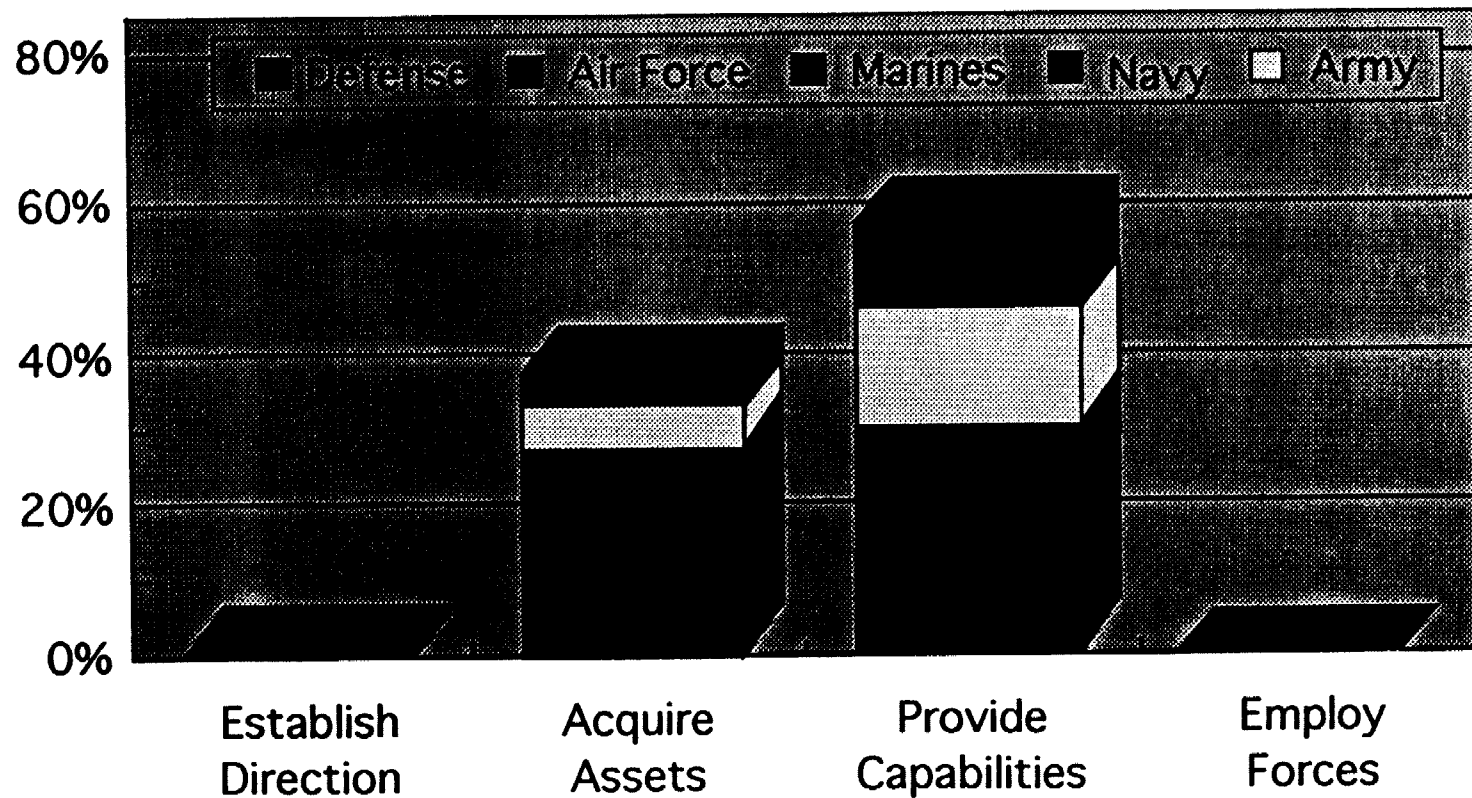




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DOD Funding - FY 93

as of PB FY 93

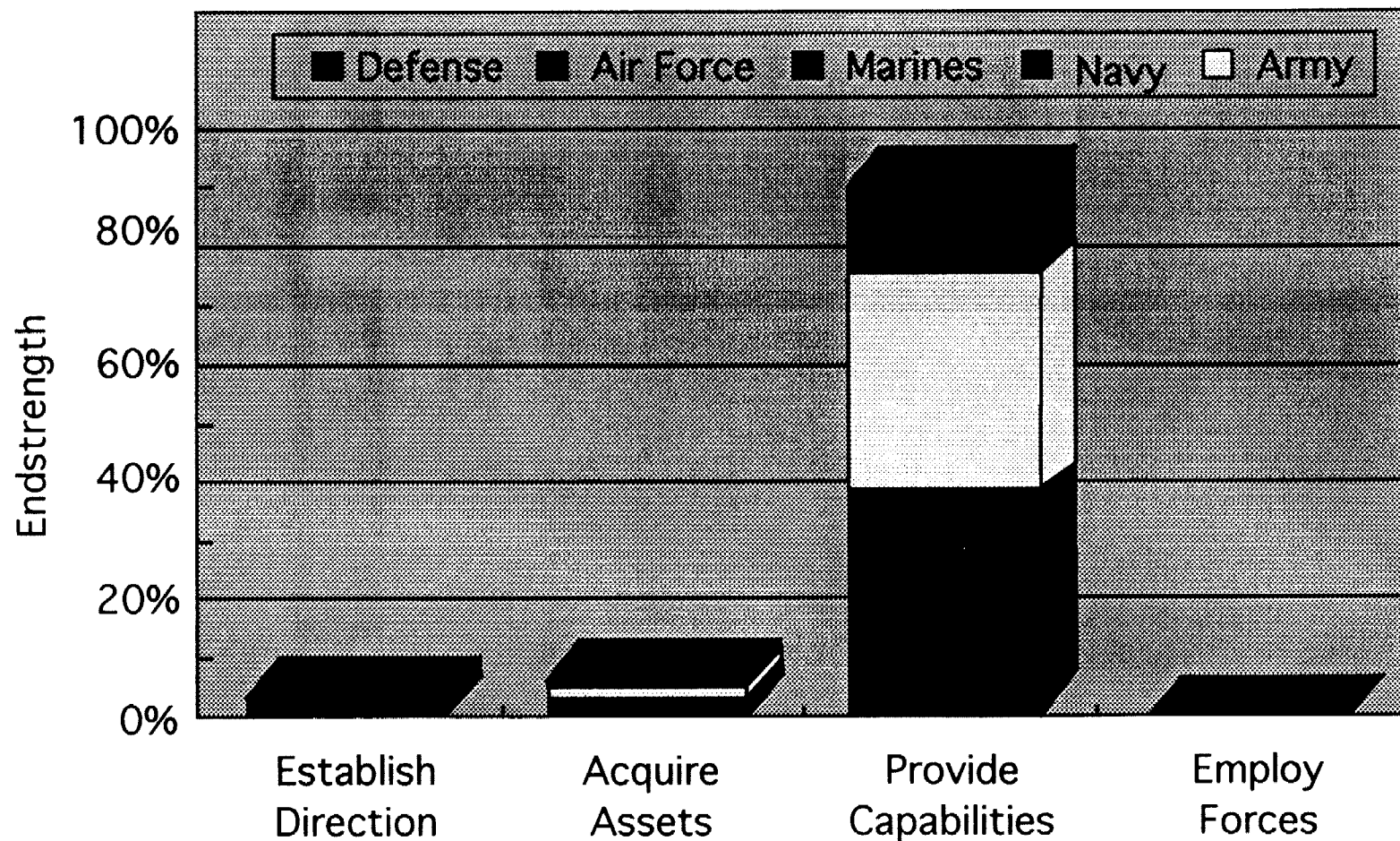




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DoD Manpower - FY 93

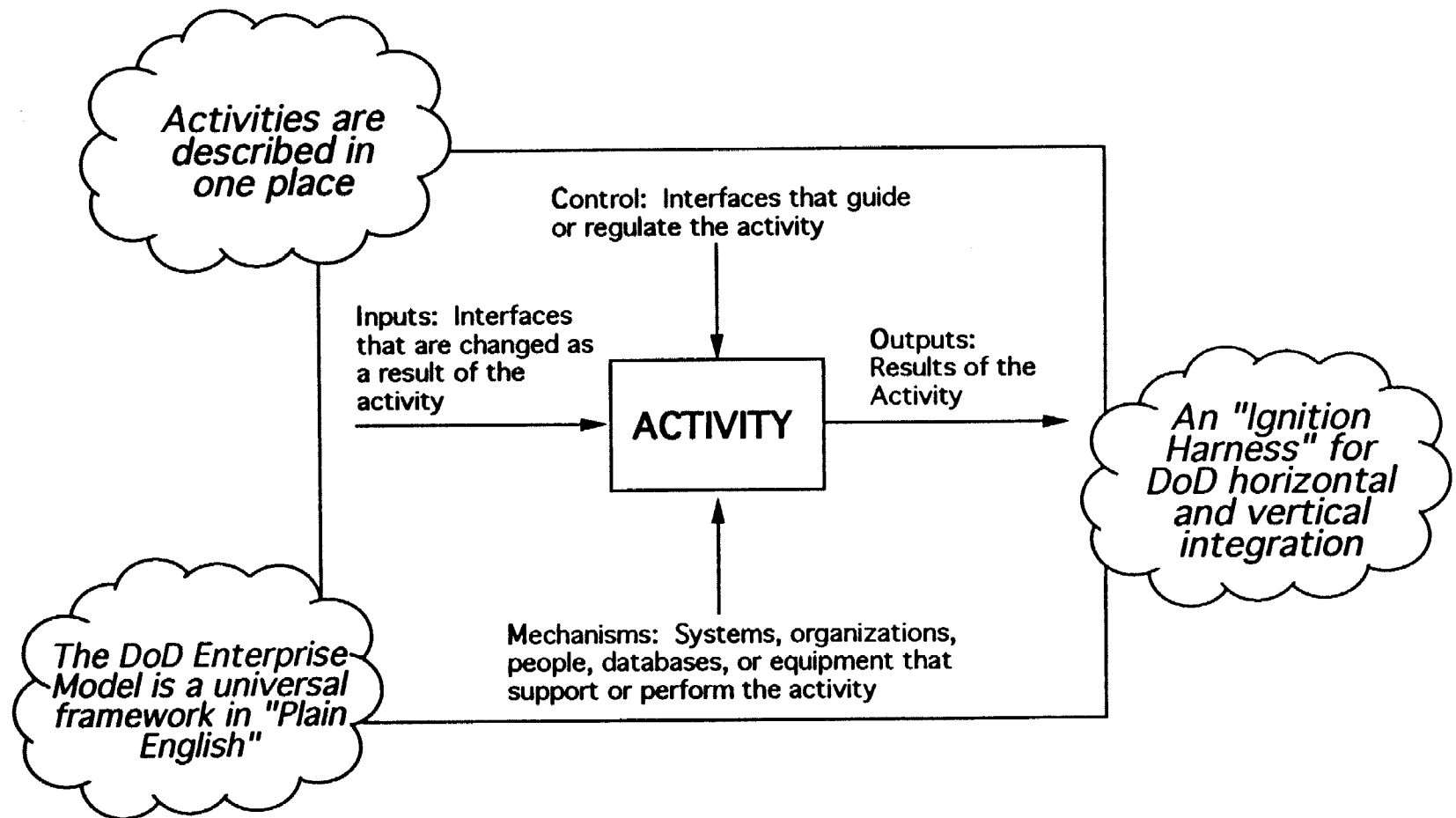
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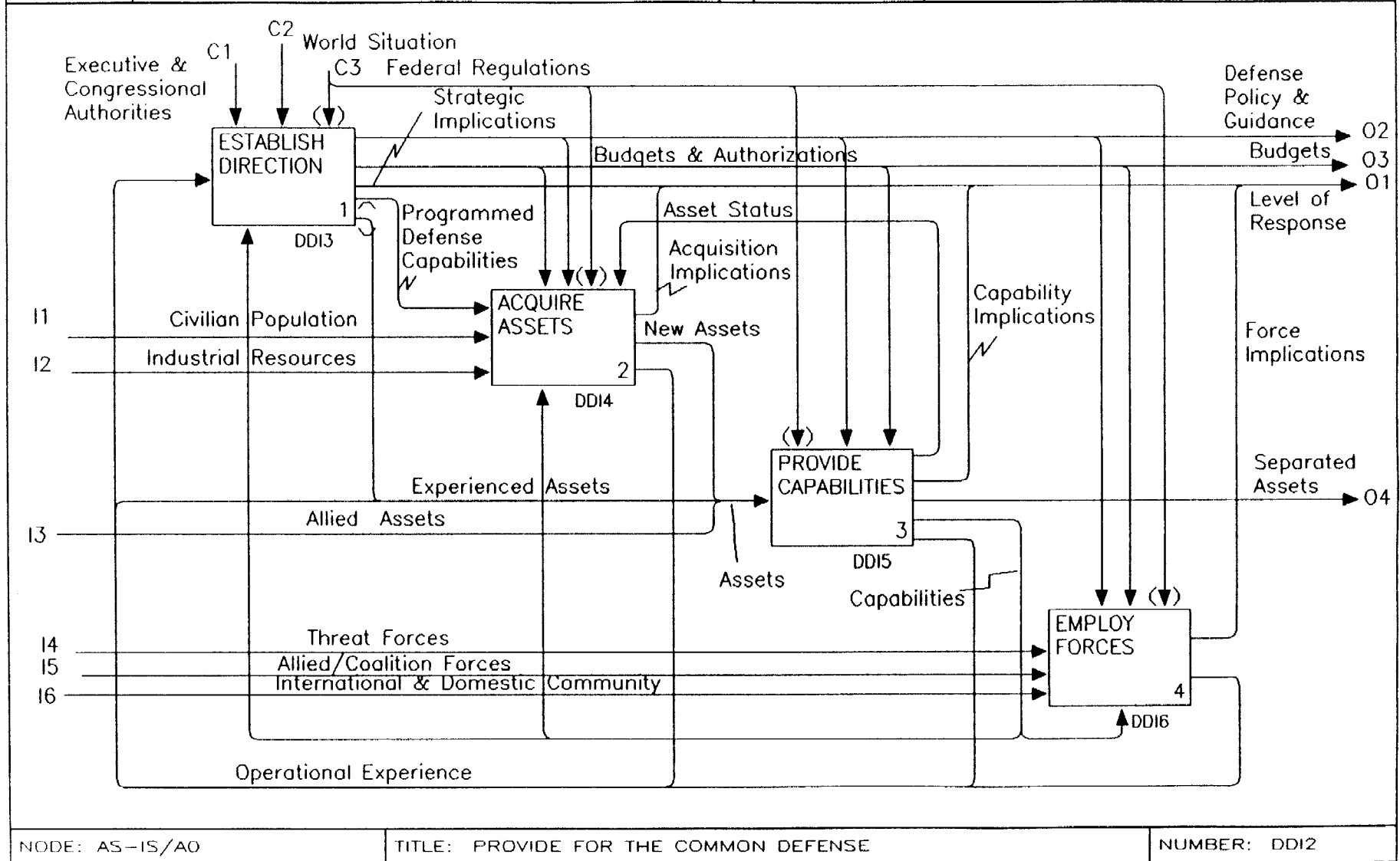


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DoD ENTERPRISE ACTIVITY MODEL METHODOLOGY



USED AT	AUTHOR : DDI		DATE: 10/07/92		X	WORKING	READER	DATE	CONTEXT DDI1
	PROJECT : ENTERPRISE		REV.: 02/17/93			DRAFT			
	COMPANY: DOD, DIRECTOR DEFENSE INFORMATION					RECOMMENDED			
	NOTES : 1 2 3 4 5 6 7 8 9 10					PUBLICATION			

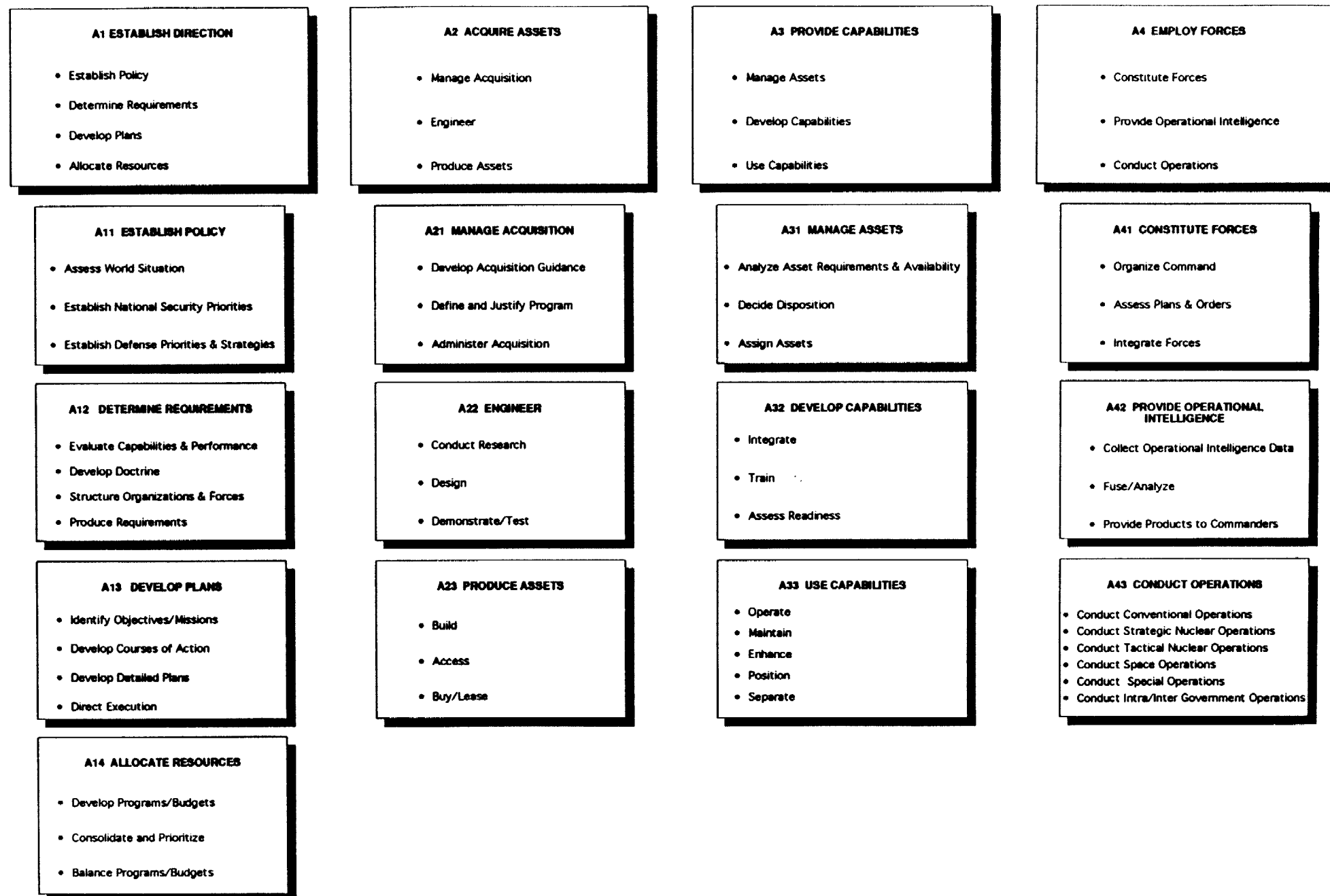


NODE: AS-IS/A0

TITLE: PROVIDE FOR THE COMMON DEFENSE

NUMBER: DDI2

DoD ENTERPRISE MODEL OVERVIEW





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A1 ESTABLISH DIRECTION

- Establish Policy
- Determine Requirements
- Develop Plans
- Allocate Resources



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A11 ESTABLISH POLICY

- Assess World Situation
- Establish National Security Priorities
- Establish Defense Priorities & Strategies



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A12 DETERMINE REQUIREMENTS

- Evaluate Capabilities & Performance
- Develop Doctrine
- Structure Organizations & Forces
- Produce Requirements



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A13 DEVELOP PLANS

- Identify Objectives/Missions
- Develop Courses of Action
- Develop Detailed Plans
- Direct Execution



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A14 ALLOCATE RESOURCES

- Develop Programs/Budgets
- Consolidate and Prioritize
- Balance Programs/Budgets



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A2 ACQUIRE ASSETS

- Manage Acquisition
- Engineer
- Produce Assets



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A21 MANAGE ACQUISITION

- Develop Acquisition Guidance
- Define and Justify Program
- Administer Acquisition



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A22 ENGINEER

- Conduct Research
- Design
- Demonstrate/Test



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A23 PRODUCE ASSETS

- Build
- Access
- Buy/Lease



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A3 PROVIDE CAPABILITIES

- Manage Assets
- Develop Capabilities
- Use Capabilities



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A31 MANAGE ASSETS

- Analyze Asset Requirements & Availability
- Decide Disposition
- Assign Assets



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A32 DEVELOP CAPABILITIES

- Integrate
- Train
- Assess Readiness



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A33 USE CAPABILITIES

- Operate
- Maintain
- Enhance
- Position
- Separate



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A4 EMPLOY FORCES

- Constitute Forces
- Provide Operational Intelligence
- Conduct Operations



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A41 CONSTITUTE FORCES

- Organize Command
- Assess Plans & Orders
- Integrate Forces



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A42 PROVIDE OPERATIONAL INTELLIGENCE

- Collect Operational Intelligence Data
- Fuse/Analyze
- Provide Products to Commanders



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A43 CONDUCT OPERATIONS

- Conduct Conventional Operations
- Conduct Strategic Nuclear Operations
- Conduct Tactical Nuclear Operations
- Conduct Space Operations
- Conduct Special Operations
- Conduct Intra/Inter Government Operations



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PURPOSE OF DoD DATA MODEL

- Identify and describe the data resources needed by all DoD functions and organizations
- Provide a basis for validating and standardizing data elements
- Guide to shared data structures in databases

Data standards provide the GLUE that integrates functions across the department



The DoD Enterprise Model

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APPROACH

- Data Models
- Data Architectures
- Data Element Standards
- Databases



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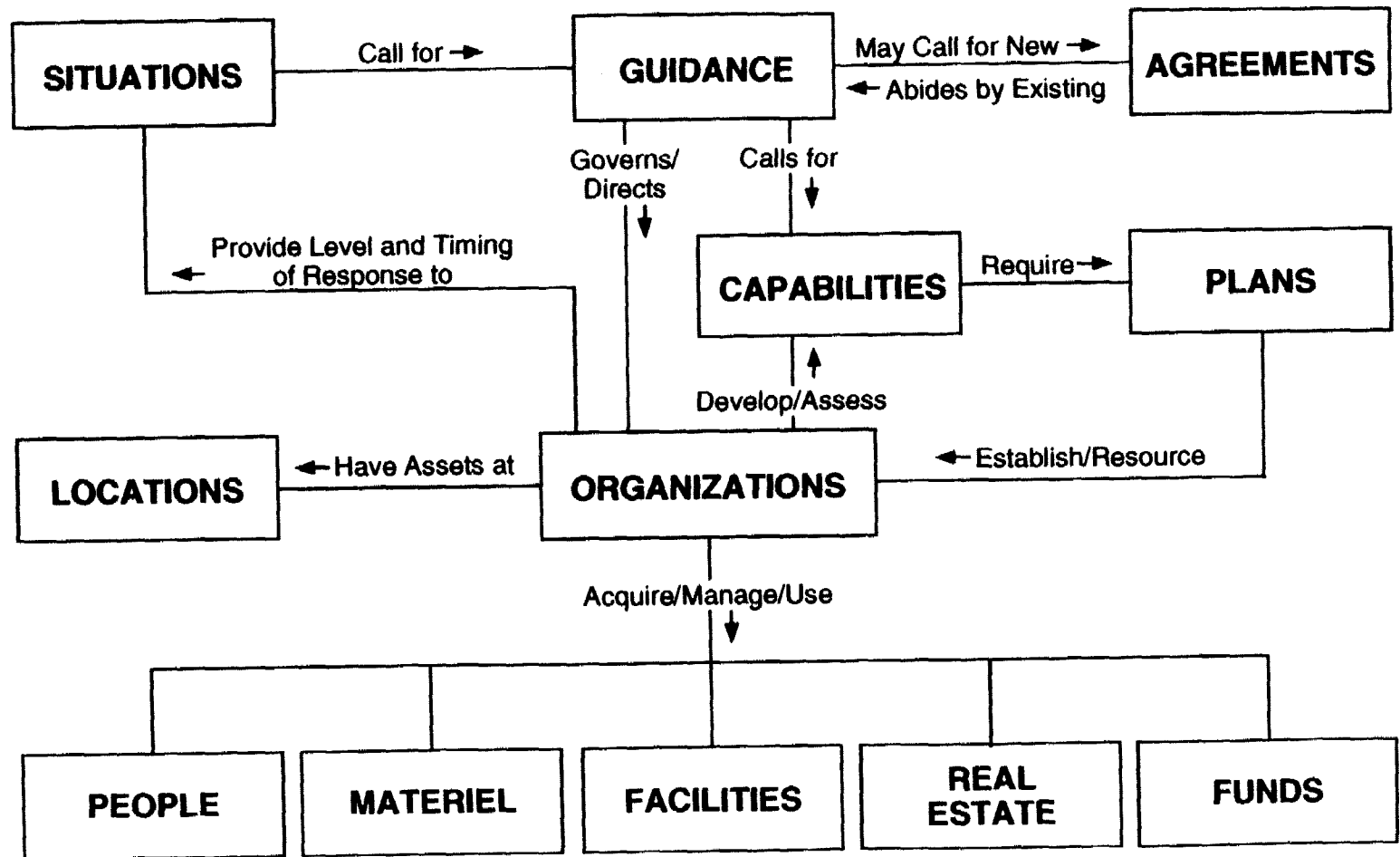
DoD ENTERPRISE DATA MODEL PROCESS

- Model data in conjunction with activities
 - Functional expert/data administration teams
 - Integrated modeling project plan for activities & data
 - FDAd/CDAd participation
 - Data Models in IDEF1X
- Store IDEF1X Data Model representation in DoD repository
- Identify standard data element descriptions
 - Validate against functional requirements/models
 - Use Data Element Standardization Procedures (DoD 8320.1-M-1)
- Approve standard data descriptions for DoD repository



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STRATEGIC LEVEL RELATIONSHIPS

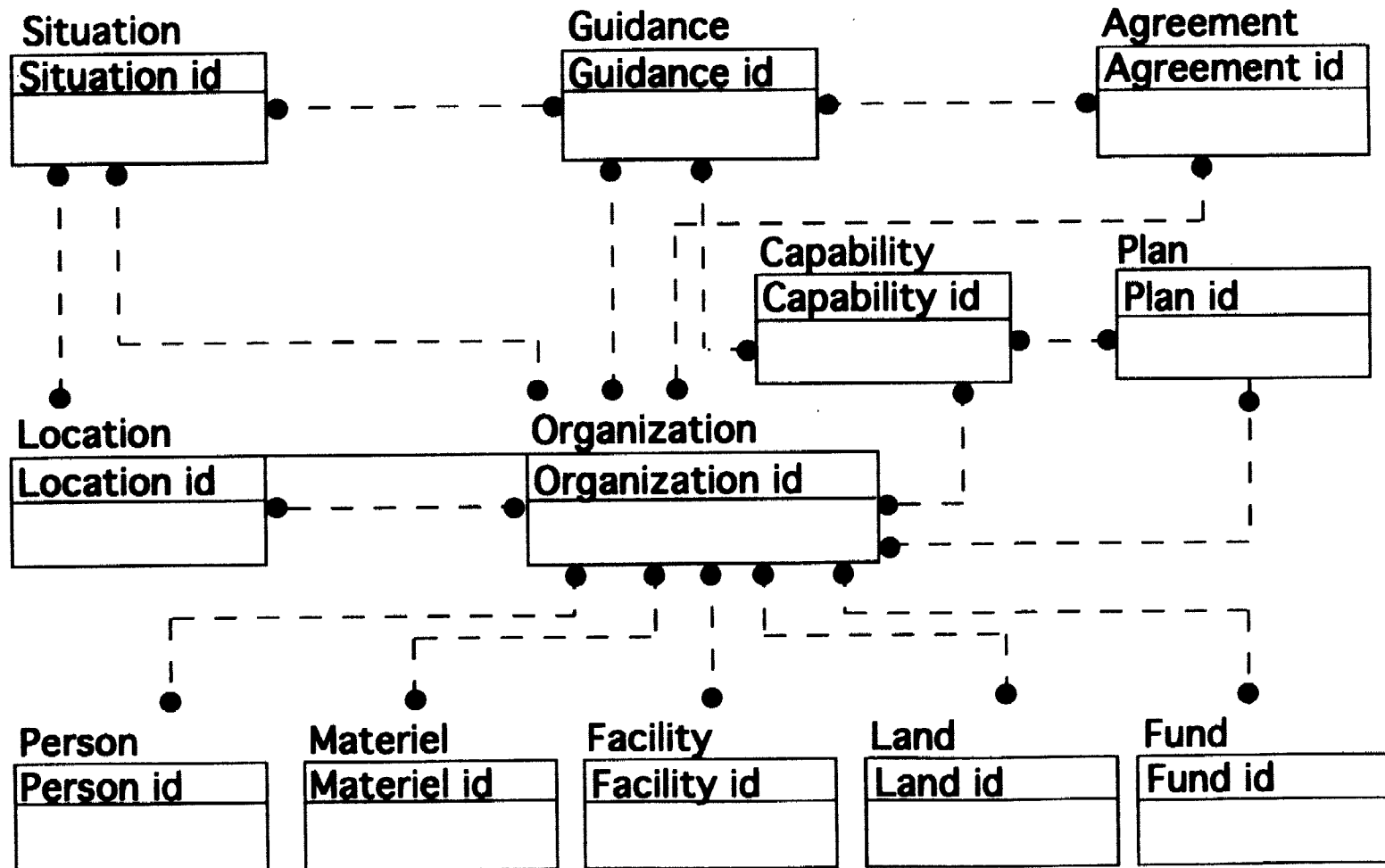




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STRATEGIC LEVEL RELATIONSHIP DATA MODEL

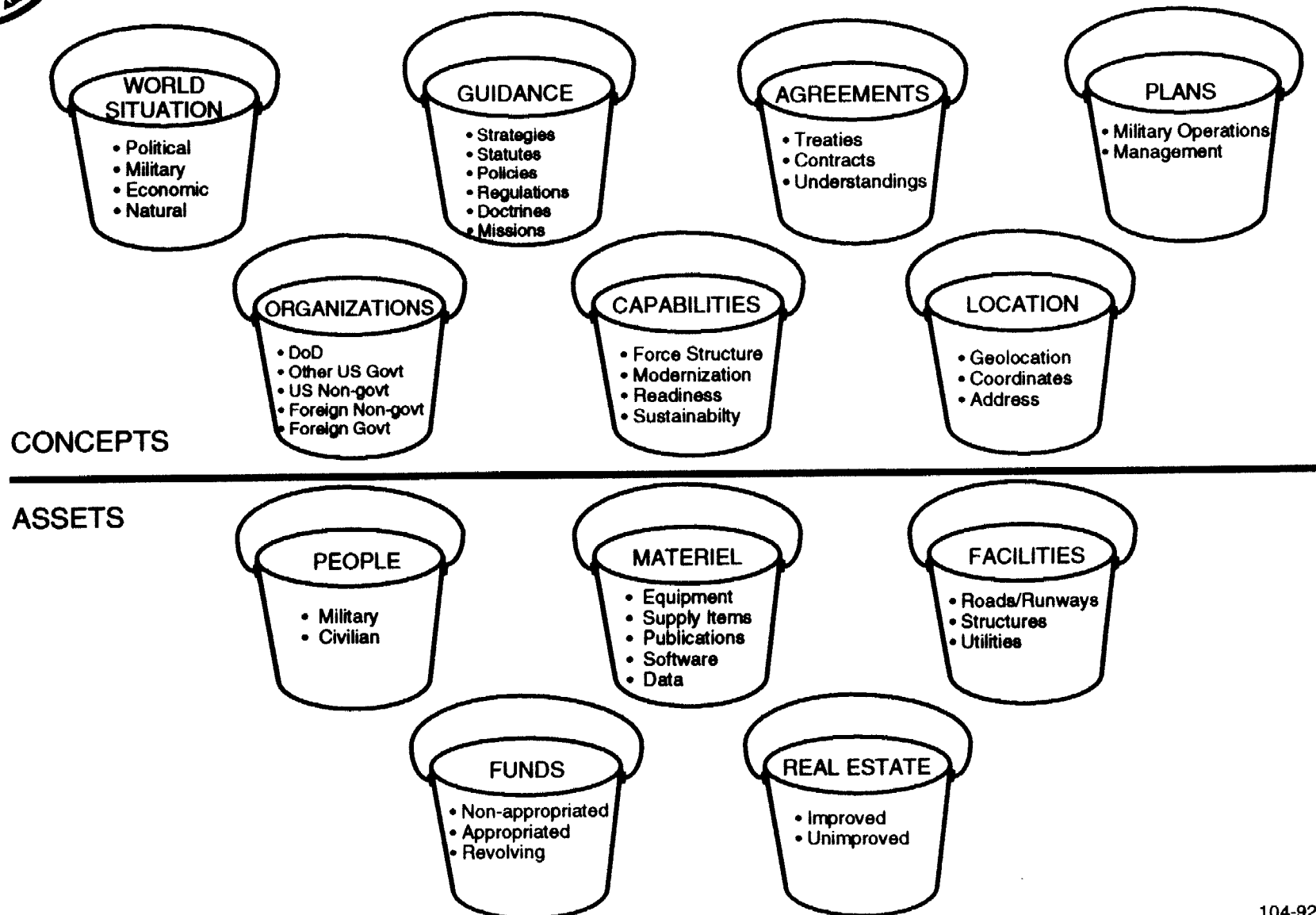
(Key-based)





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CANDIDATE STRATEGIC LEVEL ENTITIES





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WORLD SITUATION

DISCUSSION

This entity includes political, military, economic, and natural events or conditions throughout the world that individually or collectively require an appropriate level and timing of response to provide for the common defense. In order to provide the appropriate response, SITUATIONs call for GUIDANCE.



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SITUATION

GLOSSARY DEFINITION

Political, economic, military, or environmental events, international and domestic, of interest to the National Command Authority and other designated authorities.

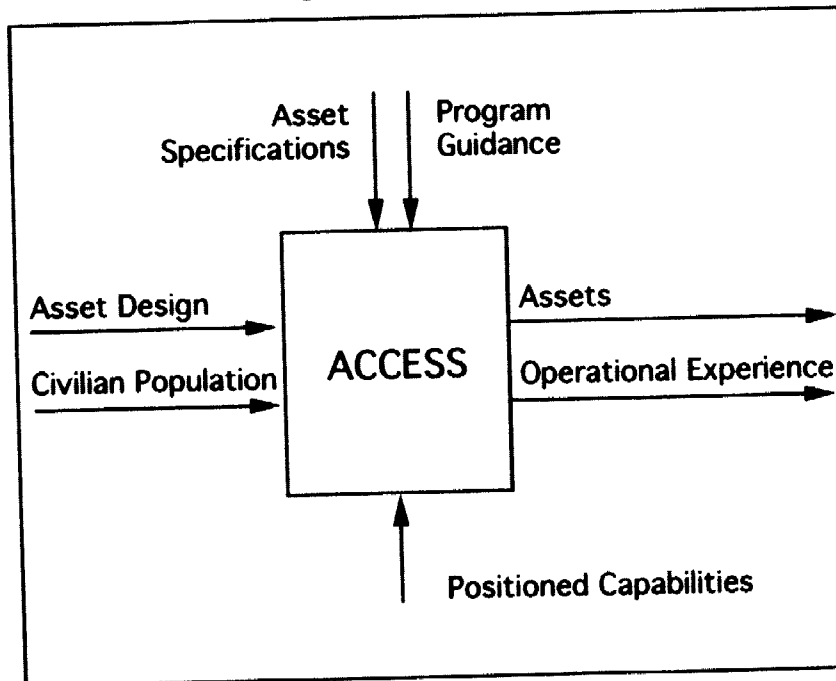
Events are identified from a variety of sources to include national technical means, commercial sources, allied sources, and other sources.



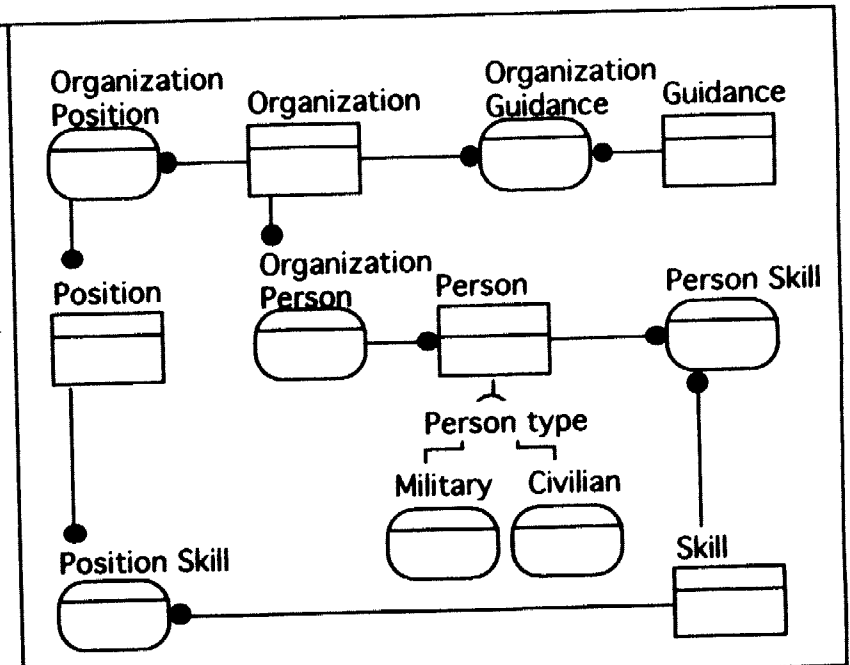
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EXAMPLE ACTIVITY AND DATA VIEW

Activity Analysis - IDEF0



Data Analysis - IDEF1X





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DoD ENTERPRISE INTEGRATION

A Corporate Approach

- Planning Strategically and Top Down
- Taking a DoD Perspective on All Activities
- Involving All DoD Stakeholders in Decisions That Affect Them
- Eliminating Duplication Aggressively
- Sharing Resources Among Organizations/Reusing Assets
- Shifting Resources Into More Productive Activities
- Evaluating Continually Processes and Outcomes to Improve Defense
- Becoming Entrepreneurial



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ENTERPRISE INTEGRATION OUTCOMES

- Enhanced Capability to Respond to Crises
- Seamless Interface Between Front Line & Support Infrastructures
- Just-in-Time Delivery of DoD Goods & Services
- Total DoD Asset Visibility & Management
- Improved Customer-Supplier Links
- Wholesale-Retail Integration
- Enhanced US Industry Competitiveness

*Enterprise Integration
Happens When the Entire
Organization Commits to
a Shared Vision and Acts
Together to Make the
Vision Become a Reality*



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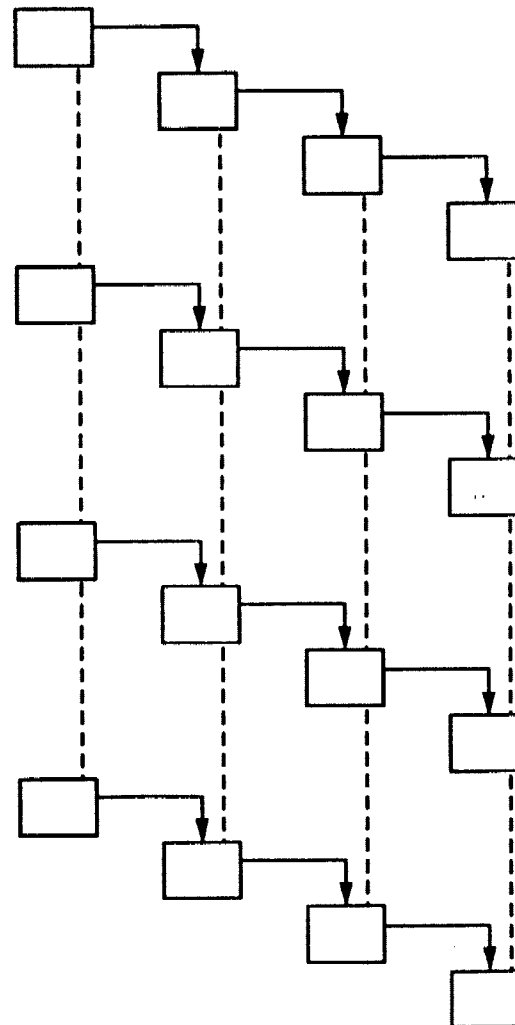
ENTERPRISE INTEGRATION APPROACH

Enterprise Model

Mission Areas

Functional Areas

Functional Activities



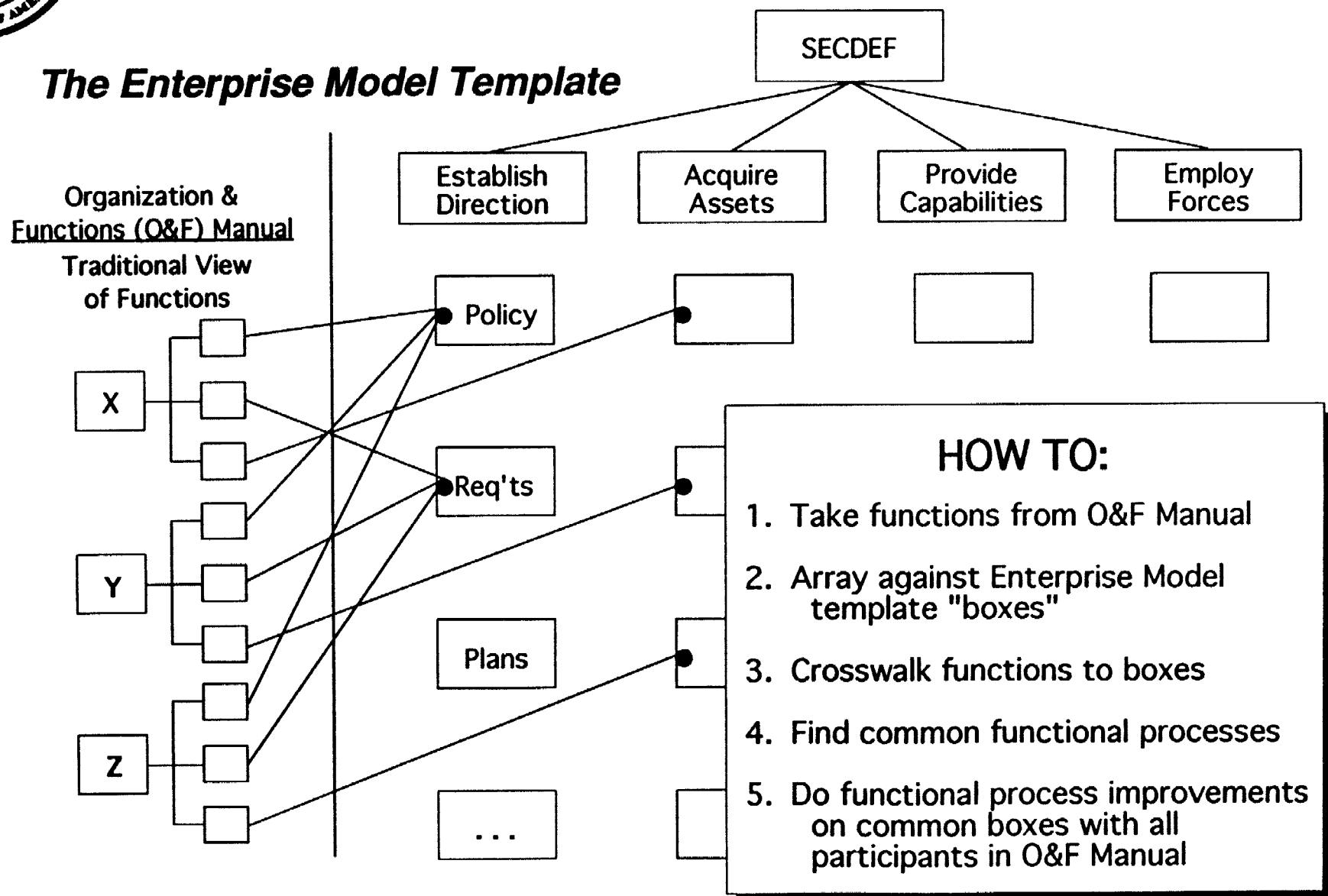
- Fit improvement effort into proper hierarchy
- Use higher level guidance and models as templates – tailor as necessary
- Capitalize on existing models
 - Fit existing data models into DoD Data Model
 - Validate existing functional models against Enterprise Model; fill missing "gaps," e.g., Establish Direction
- Decompose activities
- Reconcile & integrate with other organizations or functions



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ORGANIZATIONAL INTEGRATION METHOD

The Enterprise Model Template

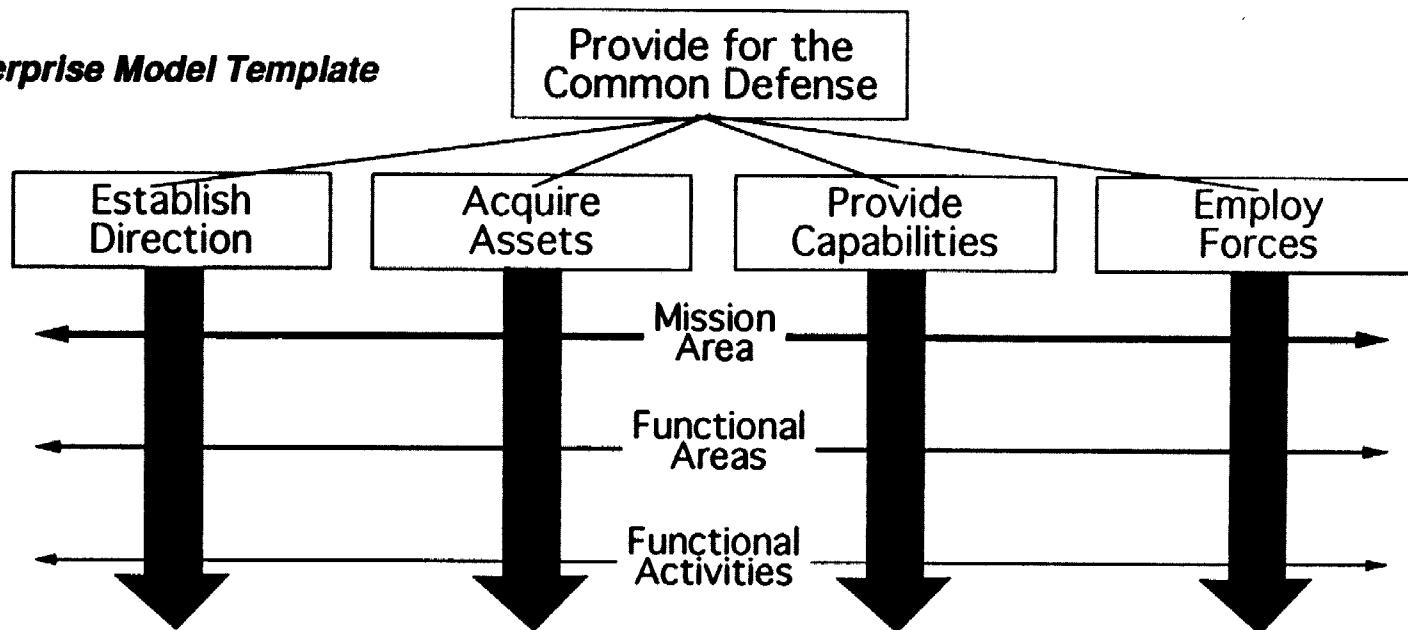




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FUNCTIONAL INTEGRATION METHOD

The Enterprise Model Template



*Don't Ignore
Existing Data
or Activity
Models*

HOW TO:

1. Fit function into DoD 8020.1-M Appendix D Mission/Function structure
2. Use higher level functional and data guidance & models as templates
 - Use DoD Enterprise Activity Model
 - Use DoD Enterprise Data Model
3. Select activities & data entities from higher level model and decompose activities and data to necessary depth
4. Coordinate with all mission/function stakeholders & DDI/DoD DAd for enterprise integration



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KEY TO SUCCESS

Functional and Data Communities must plan and execute a strategy for improving their missions, functions, organizations, data, and systems, consistent with the overall DoD goals & objectives, and integrate their efforts with other communities using the Enterprise Model Approach



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WHAT HAPPENS NEXT?

- Review Enterprise Model – Provide Comments to DDI
- Repository Information
- Afternoon Session



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COMMENTS

Please forward all comments on the DoD Enterprise Model to:

MARY H. SMITH
Deputy Director of Defense Information
1225 Jefferson Davis Highway
Crystal Gateway..2
Suite 910
Arlington, Virginia 22202

Please submit comments within 90 days,
include name and phone number



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DoD REPOSITORY SYSTEM

- Interim IDEF Repository System
- Contains:
 - IDEF process and Data Models only
 - Complete Glossary/Dictionary System
- Access:
 - Training Available (3 days)
 - Registration through DISA-CIM
 - Fritz Kirklichter (703) 285-5211
 - Current access is through MODEM - DDN Node Access in preparation



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DoD REPOSITORY SYSTEM

CONTINUED

- Defense Data Repository System (DDRS)
- Contains:
 - High Level Entities defined by DoD
- Access:
 - Training and registration available through DISA-CIM Program Manager for Data Administration – (703) 536-6900
 - Access via DDN



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USING DoD REPOSITORY SYSTEM

- The Interim IDEF Repository System and the DDRS should ideally be used together
 - The DDRS provides high level entities which form a framework against which new or extended efforts can be standardized
 - The Interim Repository models are available for extension, integration, and reuse. Selected copies of Reports of modeling efforts in the repository are available from the Defense Technical Information Center (DTIC)
- Both repositories can be utilized from the desktop



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AFTERNOON SESSION

- Please fill out your question sheet and put in the "Question Box" next to the Exit Door
- We will try to answer as many of your written questions as we can after lunch
- We will demonstrate how to access the IDEF repositories from 1200 to 1530